



INDIANA DEPARTMENT OF TRANSPORTATION

STANDARDS COMMITTEE MEETING AGENDA

Driving Indiana's Economic Growth

August 16, 2007

MEMORANDUM

TO: Standards Committee

FROM: Mike Milligan, Secretary

RE: Minutes for the August 16, 2007 Standards Committee Meeting

The Standards Committee meeting was called to order by the Chairman at 9:02 a.m. on August 16, 2007 in the N755 Bay Window Conference Room. The meeting was adjourned at 11:35 a.m.

The following members were in attendance:

Mark Miller, Chairman	Dave Andrews, Pvmt. Engineering
Dennis Kuchler, State Constr. Engr.	Bob Cales, Contract Admin.
Ron Heustis, Constr. Mgmt.	John Wright, Roadway Services
Larry Rust, Traffic Control	Anne Rearick, Structural Services
Michael Prather, Materials Mgmt.*	Jim Keefer, Fort Wayne Dist.
Mike Hoy, Crawfordsville Dist.**	

* Proxy for Ron Walker

** Proxy for Shakeel Baig

Also in attendance were the following:

Mike Milligan, Secretary	Ed Ratulowski, FHWA
Tony Uremovich, INDOT	Paul Berebitsky, ICA
Fred Hohl, INDOT	John Singleton, 3M
Deb Hood, INDOT	

Old Business

<u>Item No.</u>	<u>Sponsor</u>	<u>Page</u>
Item 18-13	Mr. Wright	3
Standard Drawings	614-RRGC-01 through 05	
Action:	Withdrawn	
Item 18-14	Mr. Wright	4
614	CONCRETE HEADERS	
Action:	Withdrawn	

New Business

Item 08-3-1	Mr. Rust	7
921.02(b)	Preformed Plastic	
921.02(b)1	Material Requirements	
Action:	Withdrawn	
Item 08-3-2	Mr. Heustis	9
918.03	Geotextile for Use With Underdrains	
Action:	Passed as submitted	

cc: Committee Members (11)
FHWA (4)
ICA Representative (1)

Item No. 18-13
Mr. Wright
Date: 8/16/07

PROPOSED NEW STANDARD DRAWINGS

614-RRGC-01, Railroad Crossing Details, HMA Header
614-RRGC-02, Railroad Crossing Details, RC Header
614-RRGC-03, Railroad Crossing Details, HMA Inter-Track Header
614-RRGC-04, Railroad Crossing Details, RC Inter-Track Header
614-RRGC-05, Railroad Crossing Details, Crown-Out Diagram

Other sections containing
specific cross references:

None

Recurring Special Provisions
potentially affected:

None

Motion: M
Second: M
Ayes:
Nays:

General Instructions to Field Employees

Update Required? Y___ N___

By - Addition or Revision

Frequency Manual

Update Required? Y___ N___

By - Addition or Revision

Standard Sheets potentially affected:

See Above

Action: Withdrawn

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 614, BEGIN LINE 1, DELETE AND INSERT AS FOLLOWS:

SECTION 614 – CONCRETE HEADERS

614.01 Description

This work shall consist of the construction or reconstruction of ~~PCC~~ headers adjacent to railroad tracks, ~~bridges, and similar locations~~ in accordance with 105.03.

MATERIALS

614.02 Materials

Materials shall be in accordance with the following:

Concrete, Class C.....	702
Curing Materials.....	912.01
Dense Graded Subbase	302
HMA	402.02
Reinforcing Steel, Epoxy Coated	910.01(b)9

~~If the header is adjacent to cement concrete base or pavement, the header concrete shall be the same composition as that of the base or pavement header constructed monolithic with the base or pavement. If the adjacent base or pavement is thickened, that portion forming the thickening shall be considered as part of the header.~~

~~If the header is adjacent to asphalt pavement, the concrete shall be class A in accordance with 702 using class AP coarse aggregate.~~

CONSTRUCTION REQUIREMENTS

614.03 General

Construction of headers shall not begin until after the railroad has completed its work. The railroad's work shall not be damaged. The elevation of the headers shall match the elevation of the portion constructed by the railroad. Terminal joints shall be constructed in accordance with 503.

~~614.03~~ 614.04 PCC Headers

Construction shall be in accordance with the applicable ~~provisions of 702~~ requirements of 302, 609, and ~~with~~ these requirements.

Welding shall be in accordance with 711.32.

~~Headers at railroad crossings shall be as shown on the plans.~~

614.05 Method of Measurement HMA Headers

Construction of HMA headers shall be in accordance with 402.

~~614.06 Reconstructed Cement Concrete Header~~

~~This work shall be in accordance with the plans. Round plug welds or rectangular shaped plug welds may be used to weld the steel angle to the existing steel edge protection. Round plug welds shall be a minimum of 1 in. (25 mm) diameter.~~

~~Welding shall be in accordance with 711.32.~~

614.05 614.06 Method of Measurement

~~Cement Portland cement concrete header and reconstructed cement concrete header~~ will be measured by the ~~linear foot (meter)~~ square yard (square meter). *HMA surface, intermediate, and base will be measured by the ton (megagram) in accordance with 402.19. Dense graded subbase will be measured by the cubic yard (cubic meter) in accordance with 302.08. Terminal joints will be measured by the linear foot (meter) in accordance with 503.07.*

614.06 614.07 Basis of Payment

~~The accepted quantities of this work~~ Portland cement concrete headers will be paid for at the contract unit price per ~~linear foot (meter)~~ square yard (square meter) for header, ~~cement concrete, of the type specified, or header, cement concrete, reconstruct, PCC complete~~ in place. *HMA surface, intermediate, and base will be paid for in accordance with 402.20. Dense graded subbase will be paid for in accordance with 302.09. Terminal joints will be paid for in accordance with 503.08.*

Payment will be made under:

Pay Item	Pay Unit Symbol
Header, Cement Concrete PCC , _____ type	LFT (m) SYS (m2)
Header, Cement Concrete, Reconstruct	LFT (m)

The cost of *reinforcing steel*, edge protection, metal chairs, excavation, and necessary incidentals shall be included in the cost of ~~the pay items~~ *header, cement concrete or in the cost of the HMA surface, intermediate, and base.*

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 614, CONTINUED.

Other sections containing
specific cross references:

None

Recurring Special Provisions
potentially affected:

None

Motion: M
Second: M
Ayes:
Nays:

General Instructions to Field Employees

Update Required? Y___ N___

By - Addition or Revision

Frequency Manual

Update Required? Y___ N___

By - Addition or Revision

Standard Sheets potentially affected:

See Item 18-13

Action: Withdrawn

REVISION TO 2008 STANDARD SPECIFICATIONS

SECTION 921, BEGIN LINE 13, DELETE AND INSERT AS FOLLOWS:

(b) Preformed Plastic

This material shall consist of a homogeneous preformed plastic film. ~~with a minimum thickness of 60 mils (1.5 mm) and a~~ There shall be two types of preformed plastic material:

1. *Type A material shall have a smooth plane surface, with a minimum thickness of 60 mils (1.5 mm) throughout the entire cross section.*
2. *Type B material shall have an embossed patterned surface that shall have approximately 35% to 65% of the surface area raised. The edges of the raised areas shall present a near vertical face to traffic from any direction. The minimum thickness of the raised area shall be 60 mils (1.5 mm) measured at the thickest section of the cross section. The area between the raised areas shall be a minimum of 20 mils (0.5 mm) measured at the thinnest section of the cross section. The minimum height of the raised areas above the non-raised areas of the material shall be 40 mils (1.0 mm).*

The width shall be as specified. The back of the preformed plastic material shall have a precoated adhesive and an easily removable backing covering which shall protect the adhesive in storage and facilitate rapid application. The adhesive shall allow the preformed plastic material to be repositioned on the pavement surface to which it is applied before permanently fixing it in its final position with downward pressure.

The plastic material shall be capable of being affixed to either HMA or PCCP by means of the precoated adhesive. ~~and, following~~ Following the initial application of pressure, ~~the plastic material~~ shall mold itself to pavement contours, breaks, and faults by traffic action at normal pavement temperatures.

The color of the white plastic film shall be determined by a standard color difference meter, such as the Gardner Color Difference Meter manufactured by Gardner Laboratories, Inc. Bethesda, Maryland. The plastic film shall not show deviations from a magnesium oxide standard greater than the following.

SCALES	DEFINITION	MAGNESIUM OXIDE	SAMPLE
Rd	Reflectance	100	70 Minimum
a	Redness-Greenness	0	-5 to +5
b	Yellowness-Blueness	0	-10 to +10

The color of the yellow plastic film shall visually match color No. 33538 of Federal Standard 595a. The pigment shall include medium chrome yellow.

REVISION TO 2008 STANDARD SPECIFICATIONS

SECTION 921, CONTINUED.

1. Material Requirements

The material shall be composed of plasticizers, pigments, and glass *or ceramic* beads. The pigment shall contain 20% minimum titanium dioxide for white plastic material. During manufacture, glass beads shall be mixed into the compound at a minimum of 15% and a maximum of 20% by weight. A layer of glass beads shall be bonded to the top surface *of type A material. Ceramic beads or glass beads shall be bonded to the top surface of type B material. The near vertical faces of type B material shall be coated with a layer of glass beads.*

Other sections containing
specific cross references:

808.02 Pg 674

Recurring Special Provisions
potentially affected:

None

Motion: M
Second: M
Ayes:
Nays:

General Instructions to Field Employees

Update Required? Y___ N___

By - Addition or Revision

Frequency Manual

Update Required? Y___ N___

By - Addition or Revision

Standard Sheets potentially affected:

None

Action: Withdrawn

REVISION TO 2008 STANDARD SPECIFICATIONS

SECTION 918, BEGIN LINE 54, DELETE AS FOLLOWS:

~~Requests for adding geotextiles to the approved list shall be supported by a certification documenting compliance with the above requirements and a sample. The certification shall be prepared by the manufacturer in accordance with the applicable requirements of 916. No relabeled materials will be considered for approval. A specified material on the approved list will not be listed under more than one name. When it is determined the material is acceptable, it will be added to the list of approved Geotextiles for Use with Underdrains and it may be used upon publication of the list.~~

A manufacturer; requesting that a geotextile be added to the approved list; shall provide a certification documenting compliance with the above requirements and a sample to the Materials and Tests Division. The certification shall be prepared by the manufacturer in accordance with 916. No relabeled materials will be considered for approval. A specified material on the approved list will not be listed under more than one name. When it is determined the material is acceptable, it will be added to the list of approved Geotextiles for Use with Underdrains and it may be used upon publication of the list.

Other sections containing
specific cross references:

702.03 Pg 444
718.02 Pg 567

General Instructions to Field Employees
Update Required? No

Frequency Manual
Update Required? No

Recurring Special Provisions
potentially affected:

None

Standard Sheets potentially affected:

None

Motion: Mr. Heustis
Second: Mr. Kuchler
Ayes: 10
Nays: 0

Action: Passed as submitted

____ RSP Effective: _____ Letting
____ x 2009 Standard Specifications Book
____ 2009 Standards Edition
____ 2008 Design Manual
____ Technical Advisory

Received FHWA Approval? Yes